

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	lens adj barrel with focus adj actuator with female adj screw	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:24
L2	1	lens adj barrel with (focus adj actuator) near5 female adj screw	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:24
L3	0	lens adj barrel with (focus adjdriv\$4 adj mechanism) near5 female adj screw	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:25
L4	0	lens adj barrel with (focus adjdriv\$4 adj mechanism)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:25
L5	660	female adj (screw or thread) with (inner or inside) adj circumference	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:26
L6	2581732	lens adj barrel or cam adj ring or stationary adj barrel or frame	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:26
L7	142	5 and 6	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:26
L8	399	396/133	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:27
L9	4	third adj lens adj barrel with male adj (thread or screw or helicoid)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:48

L10	2	fourth adj lens adj barrel with female adj (thread or screw or helicoid)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:49
L11	2	fourth adj lens adj (barrel or frame or ring or cylinder) with female adj (thread or screw or helicoid)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:50
L12	748	lens adj (barrel or frame or ring or cylinder) with female adj (thread or screw or helicoid)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:51
L13	17	(fourth or stationary) adj lens adj (barrel or frame or ring or cylinder) with female adj (thread or screw or helicoid)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:51
L14	53	396/130	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 23:59
L15	206	396/75	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/12 00:02
L16	174	396/73	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/12 00:06
L17	1266	359/824	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/12 00:08
L18	1	"10596591"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/12 00:29
L19	2	"6813092"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/12 00:53

S1	97	US-5574526-\$.DID. OR US-4320945-\$.DID. OR US-5223981-\$.DID. OR US-5854711-\$.DID. OR US-5973857-\$.DID. OR US-6141158-\$.DID. OR US-5724194-\$.DID. OR US-5790902-\$.DID. OR US-4461544-\$.DID. OR US-5278601-\$.DID. OR US-4412164-\$.DID. OR US-4534624-\$.DID. OR US-5604560-\$.DID. OR US-5628035-\$.DID. OR US-5689375-\$.DID. OR US-5731897-\$.DID. OR US-5898526-\$.DID. OR US-5907724-\$.DID. OR US-5937215-\$.DID. OR US-5956187-\$.DID. OR US-5978156-\$.DID. OR US-6124986-\$.DID. OR US-6134390-\$.DID. OR US-6452732-\$.DID. OR US-6917460-\$.DID. OR US-6968129-\$.DID. OR US-20070154198-\$.DID. OR US-5652923-\$.DID. OR US-4486074-\$.DID. OR US-4542972-\$.DID. OR US-5270765-\$.DID. OR US-5477271-\$.DID. OR US-6043892-\$.DID. OR US-4322615-\$.DID. OR US-4804831-\$.DID. OR US-5212516-\$.DID. OR US-5387960-\$.DID. OR US-5455649-\$.DID. OR US-5583603-\$.DID. OR US-5627670-\$.DID. OR US-5771412-\$.DID. OR US-6041186-\$.DID. OR US-6061318-\$.DID. OR US-6163340-\$.DID. OR US-4257272-\$.DID. OR US-4257705-\$.DID. OR US-4293864-\$.DID. OR US-4299462-\$.DID. OR US-4308527-\$.DID.	US-PGRUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/21 15:26
S2	627	(396/85,133).CCLS.	US-PGRUB; USPAT	OR	OFF	2008/08/21 16:02
S3	631	(359/824).CCLS.	US-PGRUB; USPAT	OR	OFF	2008/08/21 16:02

S4	1	((focus lens) and (focus adj (driv\$4 or actuator)) and (support\$4 with focus adj (driv\$4 or actuator)) and compensation adj lens and displacement adj lens and (zoom adj (driv\$4 or actuator)) and (second and third) adj zoom with driv\$4 adj part).clm.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:11
S5	1	((focus lens) and (focus adj (driv\$4 or actuator)) and (support\$4 with focus adj (driv\$4 or actuator)) and compensation adj lens and displacement adj lens and (zoom adj (driv\$4 or actuator)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:12
S6	1	((focus lens) and (focus adj (driv\$4 or actuator)) and (support\$4 with focus adj (driv\$4 or actuator)) and compensation adj lens and displacement adj lens and (zoom adj (driv\$4 or actuator))).clm.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:12
S7	1	((focus lens) and (focus adj (driv\$4 or actuator)) and (support\$4 with focus adj (driv\$4 or actuator)) and compensation adj lens)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:12
S8	1	S2 and (focus lens) and (compensation lens) and ((zoom and focus) adj (driv \$4 or actuator))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:21
S9	1	S3 and (focus lens) and (compensation lens) and ((zoom and focus) adj (driv \$4 or actuator))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:22
S10	21634	"396"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:22
S11	7	S10 and (focus lens) and (compensation lens) and ((zoom and focus) adj (driv \$4 or actuator))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:22

S12	1	zoom adj driv\$ adj part with (support\$4 or fix\$4 or hold\$4) adj3 compensation adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:24
S13	1969	displacement lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:25
S14	1	S11 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:25
S15	107	S10 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:25
S16	1	zoom adj actuator with (support\$4 or fix\$4 or hold\$4) adj4 displacement lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:26
S17	8	(driv\$4 or actuator) with (support\$4 or fix\$4 or hold\$4) adj4 displacement lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:26
S18	49	(driv\$4 or actuator) with (support\$4 or fix\$4 or hold\$4) with displacement adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:28
S19	1969	displacement adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:30
S20	107	S10 and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:30
S21	14	compensation adj lens and displacement adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:42

S22	0	zoom adj (driv\$4 or actuator or motor) near move adj displacement adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:59
S23	1	zoom adj (driv\$4 or actuator or motor) with move adj displacement adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:59
S24	106315	"359"/\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:59
S25	4	S21 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 16:59
S26	1	(third adj zoom adj driv\$4 part).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 17:17
S27	1	(third adj zoom adj driv\$4 part)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 17:18
S28	20	("4076389"   "4636041"   "4739359"   "4948235"   "5113261"   "5140468"   "5166829"   "5298933"   "5570149"   "5606383"   "5621568"   "5625487"   "5627683"   "5636062"   "5689739"   "5694624"   "5708535"   "5742850"   "5790908"   "6031998"   PN. OR ("7345836").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/08/21 17:41
S29	8	("3851952"   "4213686"   "4255020"   "4332444"   "4870436"   "5077569"). PN. OR ("5594517").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/08/21 17:51
S30	37	compensat\$4 adj lens and displacement adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 17:54

S31	11	S24 and S30	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 17:54
S32	2	S10 and S30	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 17:54
S33	12	("20020102102"   "2002376"   "20050057812"   "4407567"   "4834512"   "5986811"   "6111900"   "6658208"   "6833938"). PN. OR ("7057826").URPN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2008/08/21 17:55
S34	1	S2 and S30	US-PGRUB; USPAT; USOCR	ADJ	ON	2008/08/21 18:05
S35	1	S2 and S30	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 18:05
S36	1	compensat\$4 adj lens adj group with mov\$4 adj (trajectory or path)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 18:06
S37	4257	zoom adj (actuator or driv \$4 or motor)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 18:07
S38	1	S36 and S37	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 18:07
S39	1	zoom transition path	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 18:22
S40	1	zoom adj actuator with driv \$4 near first zoom driv\$4 adj (part or element)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/21 18:22
S41	2	"20070154198"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 10:32

S42	4	"7209175"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 10:44
S43	2	"7142780"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 10:46
S44	2	"7359003"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 10:55
S45	142346	"455"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 14:05
S46	42649	focus\$4 and zoom\$4	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 14:06
S47	561	S45 and S46	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 14:06
S48	2789	compensat\$4 adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 14:07
S49	1	S47 and S48	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 14:07
S50	3	S45 and S48	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 14:10
S51	0	{actuator or driv\$4 or motor} adj moves with ((zoom and (focusor compensat\$4)) adj lens)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 16:56



S52	0	{actuator or driv\$4 or motor} adj (moving or driv \$4) near ((zoom and (focusor compensat\$4)) adj lens)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 16:56
S53	87	{actuator or driv\$4 or motor} adj (moving or driv \$4) near ((zoom and (focus or compensat\$4)) adj lens)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 16:56
S54	393	{actuator or driv\$4 or motor} adj (moving or driv \$4) with ((zoom and (focus or compensat\$4)) adj lens)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 17:12
S55	1663	{actuator or driv\$4 or motor} with ((zoom and (focus or compensat\$4)) adj lens)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 17:12
S56	4	"6356307"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/08/25 17:36
S57	5	("4994842"   "5161026"   "5463442").PN. OR ("6356307").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/08/25 18:25
S58	6	oh-hyeong-ryeol.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 14:38
S59	16	"5978161"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 14:41
S60	13	("5691842").PN. OR ("5978161").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/03 14:42
S61	14	("20030178911"   "20030219244"   "20060061223"   "20060061890"   "20060061891"   "20060062559"   "4596449"   "4605286"   "4639084"   "5237357"   "5847874"   "5978161"   "6424472").PN. OR ("7221526").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/03 14:44

S62	2	jp-2004077968-\$.did.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 14:52
S63	1	jp-62180337-\$.did.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 15:16
S64	2	"0045209"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 15:23
S65	0	shin-yeongu.in.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 15:30
S66	0	yeongu-shin.in.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 15:31
S67	100298	"348"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:07
S68	1429195	focus adj lens and compensat\$4 adj lens and focus adj actuator and shaft or rod or guide adj part and driv\$4 with compensation and displacement adj lens and driv\$4 with displacement adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:09
S69	1	focus adj lens and (compensat\$4 adj lens) and (focus adj actuator) and (shaft or rod or guide adj part) and (driv\$4 with compensation adj lens) and (displacement adj lens) and driv\$4 with displacement adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:10
S70	2915	S67 and S68	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:10

S71	0	S67 and S69	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:11
S72	106668	"359"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:11
S73	8836	S68 and S72	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:11
S74	1	S69 and S73	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:11
S75	142977	"455"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:12
S76	2224	S68 and S75	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:12
S77	115	S73 and S76	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:13
S78	1	focus adj lens and (compensat\$4 adj lens) and (focus adj actuator) and (support adj shaft or guide adj rod or guide adj part) and (driv\$4 with compensation adj lens) and (displacement adj lens) and driv\$4 with displacement adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:14
S79	3832	S72 and S75	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:15

S80	115	S68 and S79	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/03 16:16
S81	95	US-5574526-\$.DID. OR US- 4786057-\$.DID. OR US- 5652923-\$.DID. OR US- 5854711-\$.DID. OR US- 5973857-\$.DID. OR US- 6141158-\$.DID. OR US- 4486074-\$.DID. OR US- 4542972-\$.DID. OR US- 5223981-\$.DID. OR US- 5270765-\$.DID. OR US- 5477271-\$.DID. OR US- 5724194-\$.DID. OR US- 5790902-\$.DID. OR US- 6043892-\$.DID. OR US- 4322615-\$.DID. OR US- 4461544-\$.DID. OR US- 4804831-\$.DID. OR US- 5212516-\$.DID. OR US- 5278601-\$.DID. OR US- 5387960-\$.DID. OR US- 5455649-\$.DID. OR US- 5583603-\$.DID. OR US- 5627670-\$.DID. OR US- 5771412-\$.DID. OR US- 6041186-\$.DID. OR US- 6061318-\$.DID. OR US- 6163340-\$.DID. OR US- 4257272-\$.DID. OR US- 4257705-\$.DID. OR US- 4293864-\$.DID. OR US- 4299462-\$.DID. OR US- 4308527-\$.DID. OR US- 4320945-\$.DID. OR US- 4327284-\$.DID. OR US- 4364649-\$.DID. OR US- 4370038-\$.DID. OR US- 4390977-\$.DID. OR US- 4412164-\$.DID. OR US- 4504935-\$.DID. OR US- 4509840-\$.DID. OR US- 4511932-\$.DID. OR US- 4527888-\$.DID. OR US- 4530042-\$.DID. OR US- 4534624-\$.DID. OR US- 4563705-\$.DID. OR US- 4573924-\$.DID. OR US- 4607913-\$.DID. OR US- 4782394-\$.DID. OR US- 4782396-\$.DID.	US-PGRUB; USPAT; JPO; DERWENT	ADJ	ON	2009/03/04 15:37

S82	1	"10596591"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/04 16:45
S83	11	lens adj barrel with compensation adj lens adj group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:42
S84	15	lens adj barrel with male adj screw with outer adj (surface or circumference)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:43
S85	2	tool adj groove with lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:44
S86	2	lens adj barrel with tool adj groove	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:44
S87	2	lens adj barrel same tool adj groove	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:44
S88	6	"6456444"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:47
S89	5	("5939804"   "6091548"). PN. OR ("6456444").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/05 16:49
S90	1	(first or primary) adj lens adj barrel with compensation adj lens adj group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:53
S91	4	(second\$4) adj lens adj barrel with focus adj (actuator or motor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:54
S92	393	(first and second) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 16:56

S93	1	first adj lens adj barrel with (male adj helicoid) with outer adj (surface or circumference or peripheral)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:44
S94	1	second adj lens adj barrel with (female adj helicoid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:45
S95	0	("2005/0190464").URFN.	USPAT	ADJ	ON	2009/03/05 17:46
S96	1	first adj lens adj barrel with (male adj (thread or helicoid)) with outer adj (surface or circumference or peripheral)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:46
S97	91	lens adj barrel with (male adj (thread or helicoid)) with outer adj (surface or circumference or peripheral)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:46
S98	314	lens adj barrel with (female adj helicoid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:47
S99	74	S97 with S98	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:47
S100	74	S97 same S98	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:47
S101	0	lens adj barrel with (female adj helicoid) same focus adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:48
S102	0	lens adj barrel with (female adj helicoid) and focus adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:48
S103	0	lens adj barrel with (female adj helicoid) with focus adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:48

S104	1	second adj lens adj barrel with focus adj actuator	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:49
S105	11	lens adj barrel with focus adj actuator	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:49
S106	1	focus adj actuator with (disposed or fix\$4 or secured or attach\$4) with (exterior or outer) with lens adj barrel	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:52
S107	1	focus adj actuator with (disposed or fix\$4 or secured or attach\$4 or connect\$4) with (exterior or outer) with lens adj barrel	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:52
S108	1	focus adj actuator with (disposed or fix\$4 or secured or attach\$4 or connect\$4 or combined) with lens adj barrel	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:52
S109	1	focus adj actuator with (disposed or fix\$4 or secured or attach\$4 or connect\$4) with lens adj barrel	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:53
S110	0	(focus adj actuator with (disposed or fix\$4 or secured or attach\$4 or connect\$4) with lens adj barrel).clm.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:53
S111	3	focus adj (actuator or unit or driv\$4 adj device or mechanism) with (disposed or fix\$4 or secured or attach\$4) with (exterior or outer) with lens adj barrel	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/05 17:58
S112	92	US-4924612-\$.DID. OR US-5510869-\$.DID. OR US-6139162-\$.DID. OR US-5907373-\$.DID. OR US-6014489-\$.DID. OR US-4772780-\$.DID. OR US-5729024-\$.DID. OR US-5786665-\$.DID. OR US-5818062-\$.DID. OR US-5929436-\$.DID. OR US-6036328-\$.DID. OR US-6094404-\$.DID. OR US-5462164-\$.DID. OR US-	US-PGRUB; USPAT; JPO; DERWENT	ADJ	ON	2009/03/09 10:09

		5519519-\$.DID. OR US- 5671028-\$.DID. OR US- 5828302-\$.DID. OR US- 6102545-\$.DID. OR US- 6215535-\$.DID. OR US- 4405858-\$.DID. OR US- 4807026-\$.DID. OR US- 4840137-\$.DID. OR US- 4864144-\$.DID. OR US- 4865196-\$.DID. OR US- 5266811-\$.DID. OR US- 5398170-\$.DID. OR US- 5410212-\$.DID. OR US- 5467216-\$.DID. OR US- 5573107-\$.DID. OR US- 5757447-\$.DID. OR US- 5841154-\$.DID. OR US- 6048071-\$.DID. OR US- 6231200-\$.DID. OR US- 6249370-\$.DID. OR US- 4250575-\$.DID. OR US- 4251142-\$.DID. OR US- 4259963-\$.DID. OR US- 4340292-\$.DID. OR US- 4494874-\$.DID. OR US- 4616293-\$.DID. OR US- 4814948-\$.DID. OR US- 4875074-\$.DID. OR US- 4916478-\$.DID. OR US- 5219418-\$.DID. OR US- 5319414-\$.DID. OR US- 5408296-\$.DID. OR US- 5459000-\$.DID. OR US- 5459505-\$.DID. OR US- 5471050-\$.DID.				
S113	13	396/490	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:18
S114	1	("4657366").PN. OR ("6817787").URPN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/03/09 10:20
S115	160	396/452	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:26
S116	38	396/471	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:26



S117	127	396/493	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:26
S118	27	396/494	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:26
S119	5	("4150890"   "6190060"   "6425698").PN. OR ("6805500").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/09 10:31
S120	317	"348"/\$ and (shutter or diaphragm or light adj shielding or light adj blocking) adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:51
S121	692	"359"/\$ and (shutter or diaphragm or light adj shielding or light adj blocking) adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 10:51
S122	1	(tool adj key or instrument) adj groove same (lens adj barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:11
S123	2175	(tool adj key or instrument) adj rotat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:12
S124	26446	(tool or key or instrument) adj rotat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:12
S125	923	(tool or key or instrument) adj rotat\$3 with groove	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:12
S126	3640	(tool or key or instrument) adj rotat\$3 with (groove or slot or hole or recess)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:13
S127	112	(tool or key or instrument) adj (groove or slot or hole or recess) same (lens adj barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:13

S128	69	(tool or key or instrument) adj (groove or slot or hole or recess) with (lens adj barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:13
S129	6	(tool or instrument) adj (groove or slot or hole or recess) same (lens adj barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:21
S130	5	(tool or instrument) adj (groove or slot or hole or recess) with (lens adj barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:32
S131	1	(adjust\$4 or fix\$4) with (maximum or optimum) with (range or height or extension) adj (lens adj barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/09 18:34
S132	9	(optical or lens) adj module with (first and second) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 15:07
S133	612	359/704	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 15:10
S134	14853	(male and female) adj (screw or helicoid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 15:11
S135	159	S133 and S134	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 15:11
S136	0	tool adj (groove or insert or slot or recess or indent or cam) with (dispos\$4 or fix\$3 or attach\$4 or install \$4) adj (lens adj barrel or lens adj frame)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:20
S137	1482	tool adj (groove or insert or slot or recess or indent or cam) with (dispos\$4 or fix\$3 or attach\$4 or install \$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:21

S138	4689	(tool or device or instrument or implement) adj (groove or insert or slot or recess or indent or cam) with (dispos\$4 or fix\$3 or attach\$4 or install\$4)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:21
S139	23043	"396"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S140	13	S138 and S139	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S141	107262	"348"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S142	1	S137 and S139	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S143	4	S137 and S141	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S144	24	S138 and S141	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S145	112319	"359"/\$	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:22
S146	21	("5517990"   "5552822"   "5921992"   "5954648"   "5987960"   "6081336"   "6112113"   "6187018"   "6235038"   "6236875"   "6306126"   "6347460"   "6377839"   "6402762"   "6434847"   "6497134"   "6511418"   "6517478"   "6584339").FN. OR ("7043961").URPN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/03/10 16:26

S147	26	("4055376"   "4609814"   "4722056"   "4836667"   "4836778"   "4968147"   "5305091"   "5309913"   "5383454"   "5513005"   "5517990"   "5622170"   "5662111"   "5694212"). PN. OR ("6081336").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/10 16:31
S148	20	("3606550"   "3908077"   "4207594"   "4662075"   "4691715"   "4744362"   "4750489"   "4781463"   "4922909"   "5098426"   "5131753").PN. OR ("5552822").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/10 16:31
S149	225	(calibrat\$4 or adjust\$4) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:35
S150	4	(calibrat\$4 or adjust\$4) adj (height or mov\$3 adj range) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 16:35
S151	3	("5699200"   "7221524"   "7230777").PN. OR ("7499230").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/10 17:09
S152	14	("2596665"   "5016993"   "5166829"   "5461444"). PN. OR ("5699200").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/10 17:12
S153	32	(S137 or S138) and S145	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 17:25
S154	46	(fix\$4 or initial) adj position adj lens adj (unit or group)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 17:26
S155	1	zoom adj transition adj path	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 18:13
S156	0	zoom adj cam adj path	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 18:14

S157	33	(first and second and third and fourth) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 18:14
S158	12	(first same second same third same fourth) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 18:14
S159	1	(first near second near third near fourth) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/10 18:15
S160	13	("20010026401"   "20020135887"   "20020135898"   "20030117725"   "4154510"   "6115197"   "6369962"   "6392828"   "6522478"   "6522482"   "6751032").PN. OR ("6822810").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/10 18:17
S161	0	(first adj lens adj barrel) adj (dispos\$4 or configur\$4 or fix\$4 or provid\$3 or fabricat\$4 or manufactur\$4) with (tool or instrument) adj (groove or slit or slot of recess)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 17:53
S162	0	(compensation adj lens adj barrel) adj (dispos\$4 or configur\$4 or fix\$4 or provid\$3 or fabricat\$4 or manufactur\$4) with (tool or instrument) adj (groove or slit or slot of recess)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 17:54
S163	2	"7450834"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 17:59
S164	11	("20060181632"   "20070086770"   "20070097527"   "4676794"   "5289318"   "5680251"   "5825559"   "6038088"   "6046866"   "6061164"   "6940542").PN. OR ("7450834").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/26 18:00

S165	901	compensat\$4 adj lens and (CCD or CMOS)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:19
S166	9645696	control\$5 or CPU or microcontroller and (focus adj actuator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:20
S167	2347	(control\$5 or CPU or microcontroller) and (focus adj actuator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:20
S168	220	focus\$3 adj driv\$4 adj (part or member or device or frame)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:22
S169	363	focus\$3 adj (driv\$4 or mov \$5) adj (part or member or device or frame)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:23
S170	9712	restor\$4 adj (spring or plate or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:23
S171	4	S165 and S167	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:23
S172	6	S165 and S169	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:24
S173	0	S165 and S170	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:24
S174	0	S168 and S170	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:24

S175	0	S169 and S170	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:24
S176	2967	compensat\$4 adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:25
S177	11	S169 and S176	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:25
S178	2607	focus adj actuator	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:27
S179	0	S170 and S178	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:28
S180	7607927	(spring or plate or member)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:28
S181	997	S178 and S180	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:28
S182	15	S176 and S181	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:29
S183	5528951	(spring or plate or elastic adj member)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:30
S184	877	S178 and S183	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:30

S185	14	S176 and S184	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:31
S186	103490	(spring adj plate or elastic adj plate or elastic adj member)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:32
S187	31	S178 and S186	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:33
S188	1	restor\$4 with focus adj actuator with (initial or start) adj position	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:40
S189	0	restor\$4 with focus adj (barrel or frame) with (initial or start) adj position	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:41
S190	89	brak\$4 adj device with camera	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/26 18:47
S191	1	(tool or adjust\$4) adj (groove or slot or recess) with (first adj lens adj barrel)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 10:04
S192	1	((tool or adjust\$4) adj (groove or slot or recess) with (first adj lens adj barrel)).clm.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 10:04
S193	1	"10596591"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 10:50
S194	1	spring with (restor\$4) with initial adj position	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 11:03



S195	1	spring with (restor\$4 or mov\$4) with (holder or frame) with initial adj position	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 11:05
S196	1	spring with (mov\$4) with (holder or frame) with initial adj position	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 11:05
S197	370	restor\$4 adj (spring or plate or member) with initial adj position	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 11:06
S198	23	piezoelectric with focus actuator	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 11:41
S199	1	piezoelectric with focus actuator and compensat\$5 adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:12
S200	1	piezoelectric with focus actuator with compensat\$5 adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:12
S201	1	((piezoelectric with focus actuator with compensat\$5 adj lens).dm.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:12
S202	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between adj ((compensat\$4 adj lens) near (frame and holder))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:14
S203	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between adj ((compensat\$4 adj lens) near (fix\$3 adj member ))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:15
S204	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with ((compensat\$4 adj lens) near (fix\$3 adj member ))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:15

S205	1	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (compensat\$4 adj lens)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:16
S206	1	(piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (compensat\$4 adj lens)). cfm.	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:16
S207	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (((compensat\$4 adj lens) near (fix\$3 adj member or part)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:18
S208	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (((compensat\$4 adj lens) near (zoom adj driv\$4 adj part)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:19
S209	1	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (((compensat\$4 adj lens) with (zoom adj driv\$4 adj part)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:19
S210	1	piezoelectric adj element same (disposed or installed or fixed or bond\$4 or attach\$4) with between with (((compensat\$4 adj lens) with (zoom adj driv\$4 adj part)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:19
S211	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (((compensat\$4 adj lens) with (frame or holder or yoke)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:21
S212	0	piezoelectric adj element with (disposed or installed or fixed or bond\$4 or attach\$4) with between with (((compensat\$4 adj lens) and (frame or holder or yoke)))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:21

S213	0	focus adj (actuator or motor or driv\$4 adj source) with (suspension adj spring) adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:33
S214	0	focus adj (actuator or motor or driv\$4 adj source) with (suspension adj spring or damper) adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:34
S215	1	((suspension adj spring or damper) adj member with (support\$4 or held or position\$4 or provid\$3) adj between near3 (fixing adj (member or part) or yoke or frame)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:36
S216	0	((suspension adj spring or damper) adj member with (support\$4 or held or position\$4 or provid\$3) adj between near3 (actuator adj (yoke or frame))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:37
S217	0	((suspension adj spring or damp\$3) adj member with (support\$4 or held or position\$4 or provid\$3) adj between near3 (actuator adj (yoke or frame))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:38
S218	0	((suspension adj spring or damp\$3) adj member with (support\$4 or held or position\$4 or provid\$3) adj between adj (actuator adj (yoke or frame))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:38
S219	0	((suspension adj spring or damp\$3) adj member with (support\$4 or held or position\$4 or provid\$3) with between with (actuator adj (yoke or frame))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:38
S220	0	((suspension adj spring or damp\$3) adj member with (support\$4 or held or position\$4 or provid\$3) with between with (actuator adj (yoke or frame))),.dm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:38

S221	0	((suspension adj spring or damper) adj member with (support\$4 or held or position\$4 or provid\$3) adj between near3 (fixing adj (member or part) or yoke or frame)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:39
S222	0	((suspension adj spring or damper) adj member with (support\$4 or held or position\$4 or provid\$3) adj between with (fixing adj (member or part) and focus adj driv\$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:39
S223	0	((suspension adj spring or damper) adj member with (support\$4 or held or positions\$4 or provid\$3) awith between with (fixing adj (member or part) and focus adj driv\$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:40
S224	0	((suspension adj spring or damper) adj member with (support\$4 or held or position\$4 or provid\$3) with between with (fixing adj (member or part) and focus adj driv\$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:40
S225	0	((suspension adj spring or damper) adj member with (support\$4 or held or position\$4 or provid\$3) with (fixing adj (member or part) and focus adj driv \$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:41
S226	0	((suspension adj spring or damper)) adj member with (support\$4 or held or position\$4 or provid\$3) with (fixing adj (member or part) and focus adj driv \$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:41
S227	0	((suspension adj spring or damper)) adj member with (support\$4 or held or position\$4 or provid\$3) with (fixing adj (member or part) near focus adj driv \$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:41

S228	0	((((suspension adj spring or damper)) adj member with (support\$4 or held or position\$4 or provid\$3) same (fixing adj (member or part) near focus adj driv \$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:41
S229	0	((((suspension adj spring or damper)) adj member isame (support\$4 or held or position\$4 or provid\$3) same (fixing adj (member or part) near focus adj driv \$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:42
S230	0	((((suspension adj spring or damper) adj member) with (support\$4 or held or position\$4 or provid\$3) with (fixing adj (member or part) near focus adj driv \$4 adj part)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:42
S231	0	((((suspension adj spring or damper) adj member) with (support\$4 or held or position\$4 or provid\$3) with (fixing adj (member or part) near focus adj driv \$4 adj part))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:42
S232	18	compensat\$4 adj driv\$4 adj (part or member or source)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 12:44
S233	1259	359/824	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 13:56
S234	26	S233 and compensat\$4 adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 13:56
S235	1	"10584385"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 14:47
S236	0	(wire or spring or plate) with dispos\$4 with compensat\$4 adj lens adj (frame or holder or ring or barrel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:22

S237	0	(wire or spring or plate or suspension) with dispos\$4 with compensat\$4 adj lens adj (frame or holder or ring or barrel)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:23
S238	2315	elastic\$4 adj (wire or spring or plate or suspension or tension) adj (part or member or element)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:24
S239	2972	compensat\$4 adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:24
S240	0	S238 same S239	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:25
S241	0	S238 with S239	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:25
S242	3	S238 and S239	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:25
S243	5	("5731919").PN. OR ("6025964").URPN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/04/10 23:27
S244	186	compensat\$7 adj (suspension or spring or wire or elastic\$4) adj (member or element or part)	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:31
S245	0	(camera or lens) adj module with (focus and compensation) adj actuator	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:47
S246	11978	(camera or lens) adj module	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:47
S247	22813	focus adj lens	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:47

S248	2972	compensat\$4 adj lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:48
S249	224	S246 same S247	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:48
S250	4	S249 and S248	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:48
S251	1	S248 same S249	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:52
S252	4	S248 and S249	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:53
S253	253	S247 same S248	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:53
S254	450	S247 and S248	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/10 23:53
S255	2618	focus adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 00:00
S256	175	compensation adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 00:00
S257	523	compensat\$5 adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 00:00

S258	3980	focus\$5 adj actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 00:01
S259	22	S257 and S258	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 00:01
S260	1	"10596591"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 13:57
S261	101	displacement adj lens adj group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:02
S262	0	(first and second) adj (zoom or magnif\$8) adj driv \$8 adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:06
S263	1	(first and second) adj (zoom or magnif\$8) adj driv \$8 adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:06
S264	0	(first and second) adj (zoom or magnif\$8) adj driv \$8 adj cam	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:07
S265	1797	transition adj path	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:07
S266	82561	zoom	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:07
S267	21	S265 and S266	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:08



S268	7	"6456444"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:46
S269	3	"20050063695"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 14:59
S270	0	yoke adj dispo\$4 with between adj (magnet and focus\$4 adj3 (holder or frame))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 15:40
S271	0	yoke adj dispo\$4 with between with (magnet and focus\$4 adj3 (holder or frame))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 15:40
S272	9	yoke with between with (magnet and focus\$4 adj3 (holder or frame))	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 15:40
S273	18	("4696566"   "4745589"   "5161067"   "5208703"   "5216648"   "5220459"   "5243584"   "5337865"   "5428481"   "5475661"). PN. OR ("5787067").URPN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/04/11 15:41
S274	4	"6819500"	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 15:46
S275	115	(support\$4 or hold\$4) near4 focus\$4 adj actuator	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 16:07
S276	69908	piezoelectric adj element	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 16:11
S277	0	S275 same S276	US-PGRUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 16:11

S278	4	S275 and S276	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 16:11
S279	34	(first and second and third and fourth) adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 17:48
S280	19	(brak\$4 or damp\$4) adj device with (lens or optical) adj (holder or frame or member or barrel or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 17:52
S281	1	"10596591"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 18:14
S282	53	"5210644"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 18:24
S283	3	"4956449"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 19:50
S284	43	"4596449"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 19:50
S285	10	shutter with disposed with lens and (focus adj (frame or holder))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:46
S286	7	"6456444"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:51
S287	3	shutter with disposed with between with lens and (focus adj (frame or holder))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:52

S288	5	(shutter or device) with disposed with between with lens and (focus adj (frame or holder))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:53
S289	0	(shutter or device) with disposed with between near10 (lens and (focus adj (frame or holder)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:54
S290	0	(shutter adj device) with disposed with between near10 (lens and (focus adj (frame or holder)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:54
S291	90	(shutter adj device) with (between or behind) near10 lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:55
S292	110	(shutter adj device) with (between or behind) with lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 20:55
S293	1	shutter adj (device or unit or blades) with piezo adj ceramic adj driving	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 21:03
S294	8	"3956761"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/11 21:06

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